BRUHAT BANGALORE MAHANAGARA PALIKE

Byatarayanapura Division

Name of Work: Improvements to Roads, Drains and Drilling Borwells in ward no. 07 & 08 of Kodigehalli Sub-Division of Byatarayanapura Division, under P3106 Nagarathana works.

DETAILED MEASURMENT BOOK

1st and PART BILL

Name of Work: Improvements to Roads, Drains and Drilling Borwells in ward no. 07 & 08 of Kodigehalli Sub-Division of Byatarayanapura Division, under P3106 Nagarathana works.

Name of Agency :- Sri. G.N Ramesh

Job Code :- 007-16-000031 21224

Bill No : 1st and Part Bill

Item No	Description of Item of Work	Unit	Previous Measurement			Present Measurement		Total Up do date		Remarks
			Qty	Rate	Amount	Qty	Amount	Qty	Amount	
1	Removing B.S.Slab Drain and stacking Page NO 25 / Item No 5.32/PWD SR 2015-16.	Sqm	0.00	70.00	0.00	1365.30	95571.00	1365.30	95571.00	
2	Refixing stone slabs of drains and pointing in CM (1:3) Page NO 25 / Item No 5.33/PWD SR 2015-16.	Sqm	0.00	86.00	0.00	1365.30	117415.80	1365.30	117415.80	
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixid curing etc.., complete - 10.0cms thick (Page NO 28 / Item No 5.31.1 of PW, P&IWTD SR 2015-16).	Cum	0.00	874.00	0.00	157.05	137261.70	157.05	137261.70	
4	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3. Page No. 141/ Item No. 19.1/PWD SR 2015-16.	Cum	0.00	91.00	0.00	2568.60	233742.60	2568.60	233742.60	
5	Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materialks with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bond macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, No. 160/ Item No 21.3 /PWD SR 2015-16).	sqm	0.00	97.00	0.00	9368.70	908763.90	9368.70	908763.90	
6	Proviidng and laying, spreading and compacting graded stones aggregate to Wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specifications. No.406, Page no. 157/ item no. 20.18/ PWD SR 2015-16	Cum	0.00	1885.00	0.00	2075.40	3912129.00	2075.40	3912129.00	

7	Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. specification no. 500-1.3 P. 160/ Item No 21.1 /PWD SR 2015-16.cation and direction of the engineer-in-charge of the work	sqm	0.00	14.00	0.00	181.86	2546.04	181.86	2546.04	
8	Proviidng and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 1.10 Kg/sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification No. 502, Page No. 160/ Item No. 21.5/ PWD SR 2015-16.	Sqm	0.00	77.00	0.00	9647.70	742872.90	9647.70	742872.90	
9	Cleaning the Existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. (P. 160/ I.No. 21.2/ PWD SR 2015-16)	sqm	0.00	3.66	0.00	16766.11	61363.96	16766.11	61363.96	
10	Providing and applying tack coat using 80/100 grade nitumrn (VG 10) on prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted witth spray set (excluding cleaning of road surface) including cost of all materials, labours , HOM of machineries complete as per specifications.(Page no. 160/ Item no. 21.7/ PWD SR 2015-16)	Sqm	0.00	14.63	0.00	17670.00	258512.10	17670.00	258512.10	
11	Providing and laying bituminous Macadam on prepared surface with crushed coarse aggregates as per mix formula for base/ binding course including loading of aggregates with FE loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer/ tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. using 100-120 TPH capacity H.M.P. with sensor paver Gr-II (50mm to 75mm)with 3.3%. (Item No. 21.11.2, Page No. 161, PWD SR 2015-16).	Cum	0.00	6000.00	0.00	104.52	627120.00	104.52	627120.00	
12	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher with required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects complete as per specifications.using 40-60 TPH capacity H.M.P. with sensor paver Gr-II (30mm to 45mm)with 6% CRMB-55. (Item No. 21.23.6, Page No. 164, PWD SR 2015-16).	cum	0.00	12530.00	0.00	1057.49	13250349.70	1057.49	13250349.70	

13	Lead for Disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading from 0.00 to 2.00km (Page no. 133 of PWDSR 2015-16).	Sqm	0.00	86.00	0.00	2568.60	220899.60	2568.60	220899.60	
14	Earth work in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road, drains & trenches of pipeline and cables) and removing the excavated stuff to to a distance not xceeding 50m and lift upto 1.5m excavated surface levelled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. KBS 2.1 (a)/2.3.1 No. 5/ Item No. 2.1/PWD SR 2015-16.	cum	0.00	175.00	0.00	59.25	10368.75	59.25	10368.75	
50	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. No. 12/ Item No. 4.3/ PWD SR 2015-16	Cum	0.00	5577.00	0.00	99.52	555023.04	99.52	555023.04	
51	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift. (P171, It No. 22.7)	sqm	0.00	106.00	0.00	645.45	68417.70	645.45	68417.70	
57	KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-235. Item No. 5.3)	Cum	0.00	4237.00	0.00	8.10	34319.70	8.10	34319.70	
59	KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 112 / Item No. 15.4 / PWD SR 2015-16	sqm	0.00	106.00	0.00	18.00	1908.00	18.00	1908.00	
60	KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. No. 12/ Item No. 4.6/ PWD SR 2015-16	cum	0.00	6039.00	0.00	1.80	10870.20	1.80	10870.20	

E-2	KSRRB M400-6.1: Construction of Granular Sub Base by providing close graded Crushed stone aggragate granite /trap/basalt materials, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications A. Plant Mix Method Gor Grading II Material Page No. 154 / Item No. 20.4.2 / PWD SR 2015-16	cum	0.00	1914.72	0.00	0.00	0.00	0.00	0.00	
E-3	Cement concrete pavement. Construction of un-reinfirced plain cement concrete pavement, thickness as per deisgn, over a prepraed sub base with OPC cement or any other type as per clause 1051..2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates ,with superplastiser @ 3lts confirming to IS9103-1999 REAFFIRMED-2008, Mixed in a concrete mixer of not less than 0.6 cum capacity and approximate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates inlcuding levelling the form work as per drawing) and spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continous operation including, provision of contraction, expansion, construction operation including longitudinal joints, including groove cutting charges joint filler, sparation menebrane, sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specfication.M20 (AT 300 Kg per cum coarse aggregats @ 0.69cum and fine aggregate @0.43cum) (Pg No.174, It No.22.6.1)	cum	0.00	7149.41	0.00	0.00	0.00	0.00	0.00	
E-4	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)	sqm	0.00	5876.63	0.00	0.00	0.00	0.00	0.00	
					Grand Total		**21249455.69**		**21249455.69**	

Certificate:

1 **Certified that the contractor has done the work satisfactorly**
2 **Certified that the debris has been removed from the site**
3 **Certified that the above item of the work were not claimed in any other bill**

AE(W)

27/12/2017

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BANGALORE MAHANAGARA PALIKE

Byatarayanapura Division

Name of Work: Improvements to Roads, Drains and Drilling Borwells in ward no. 07 & 08 of Kodigehalli Sub-Division of Byatarayanapura Division, under P3106 Nagarathana works.

TOTAL ABSTRACT

1st and PART BILL

Bruhat Bengaluru Mahanagara Palike

Road Infrastructure - Byatarayanapura Division

TOTAL ABSTRACT

Name Of work : -Improvements to Roads, Drains and Drilling Borwells in ward no. 07 & 08 of Kodigehalli Sub-Division of Byatarayanapura Division, under P3106 Nagarathana works.

Job Code :- 007-16-000031 21224

Name of Agency :- Sri. G.N Ramesh

Bill No :- 1st and Part Bill

Measurements recorded on:

BOQ Item No	Description	Unit	Qty	Rate	Amount	Remarks
1	**Removing B.S.Slab Drain and stacking Page NO 25 / Item No 5.32/PWD SR 2015-16.**					
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.		0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.		0.00			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.		0.00			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.		0.00			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.		0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate		70.20			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.		236.70			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.		175.50			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.		266.40			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.		616.50			
		sqm				
	Present Qty		1365.30			
	Tender Qty		6071.22			
	Now to be paid Qty		**1365.30**	**70.00**	**95571.00**	
2	**Refixing stone slabs of drains and pointing in CM (1:3) Page NO 25 / Item No 5.33/PWD SR 2015-16.**					
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.		0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.		0.00			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.		0.00			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.		0.00			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.		0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate		70.20			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.		236.70			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.		175.50			

	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	266.40			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	616.50			
	sqm				
	Present Qty	1365.30			
	Tender Qty	5606.72			
	Now to be paid Qty	**1365.30**	**86**	**117415.80**	
3	**Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixid curing etc.., complete - 10.0cms thick (Page NO 28 / Item No 5.31.1 of PW, P&IWTD SR 2015-16).**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	0.00			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	0.00			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	0.00			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	10.80			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	26.55			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	19.80			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	29.70			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	70.20			
	Cum				
	Present Qty	157.05			
	Tender Qty	1724.50			
	Now to be paid Qty	**157.05**	**874.00**	**137261.70**	
4	**Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3. Page No. 141/ Item No. 19.1/PWD SR 2015-16.**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	145.84			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	161.50			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	166.75			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	135.60			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	803.63			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	66.00			

	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	226.13			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	210.80			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	219.75			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	432.60			
	Cum				
	Present Qty	2568.60			
	Tender Qty	7087.55			
	Now to be paid Qty	**2568.60**	**91.00**	**233742.60**	
5	**Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materialks with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bond macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, No. 160/ Item No 21.3 /PWD SR 2015-16).**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	1795.80			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	2188.20			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	1363.40			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	0.00			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	121.54			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	60.33			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	0.00			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	3839.43			
	Sqm				
	Present Qty	9368.70			
	Tender Qty	22533.40			
	Now to be paid Qty	**9368.70**	**97.00**	**908763.90**	
6	**Proviidng and laying, spreading and compacting graded stones aggregate to Wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specifications. No.406, Page no. 157/ item no. 20.18/ PWD SR 2015-16**				

	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	359.16			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	437.64			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	272.68			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	62.60			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	0.00			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	24.31			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	12.06			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	0.00			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	906.95			
	Cum				
	Present Qty	2075.40			
	Tender Qty	4390.30			
	Now to be paid Qty	**2075.40**	**1885.00**	**3912129.00**	
7	**Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. specification no. 500-1.3 P. 160/ Item No 21.1 /PWD SR 2015-16.**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	0.00			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	0.00			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	0.00			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	0.00			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	121.54			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	60.32			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	0.00			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	0.00			
	Sqm				
	Present Qty	181.86			
	Tender Qty	21970.00			
	Now to be paid Qty	**181.86**	**14.00**	**2546.04**	

8	**Proviidng and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 1.10 Kg/sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification No. 502, Page No. 160/ Item No. 21.5/ PWD SR 2015-16.**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	1795.80			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	2188.20			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	1363.40			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	0.00			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	121.54			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	60.33			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	0.00			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	4118.43			
	Sqm				
	Present Qty	9647.70			
	Tender Qty	21970.00			
	Now to be paid Qty	**9647.70**	**77.00**	**742872.90**	
9	**Cleaning the Existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. (P. 160/ I.No. 21.2/ PWD SR 2015-16)**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	0.00			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	0.00			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	0.00			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	7587.51			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	675.65			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	2422.49			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	2336.75			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	2989.21			

	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	754.50			
	Sqm				
	Present Qty	16766.11			
	Tender Qty	17670.00			
	Now to be paid Qty	**16766.11**	**3.66**	**61363.96**	
10	**Providing and applying tack coat using 80/100 grade nitumrn (VG 10) on prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted witth spray set (excluding cleaning of road surface) including cost of all materials, labours , HOM of machineries complete as per specifications.(Page no. 160/ Item no. 21.7/ PWD SR 2015-16)**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	1795.80			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	0.00			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	0.00			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	7587.51			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	675.65			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	2422.49			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	2336.75			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	2989.21			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	4862.43			
	Sqm				
	Present Qty	22669.84			
	Tender Qty	17670.00			
	Qantity reserved for want of approval of Modified Estimate	**4999.84**			
	Now to be paid Qty	**17670.00**	**14.63**	**258512.10**	
11	**Providing and laying bituminous Macadam on prepared surface with crushed coarse aggregates as per mix formula for base/ binding course including loading of aggregates with FE loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer/ tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. using 100-120 TPH capacity H.M.P. with sensor paver Gr-II (50mm to 75mm)with 3.3%. (Item No. 21.11.2, Page No. 161, PWD SR 2015-16).**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	89.79			

	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	0.00			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	0.00			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	0.00			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	0.00			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	202.36			
	Cum				
	Present Qty	292.15			
	Tender Qty	104.52			
	Qantity reserved for want of approval of Modified Estimate	**187.63**			
	Now to be paid Qty	**104.52**	**6000.00**	**627120.00**	
12	**Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher with required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects complete as per specifications.using 40-60 TPH capacity H.M.P. with sensor paver Gr-II (30mm to 45mm)with 6% CRMB-55. (Item No. 21.23.6, Page No. 164, PWD SR 2015-16).**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	71.83			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	86.33			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	54.54			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	303.50			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	27.03			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	105.09			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	95.30			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	119.37			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	194.50			
	Cum				
	Present Qty	1057.49			
	Tender Qty	1415.52			
	Now to be paid Qty	**1057.49**	**12530.00**	**13250349.70**	

13	**Lead for Disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading from 0.00 to 2.00km (Page no. 133 of PWDSR 2015-16).**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	145.84			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	161.50			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	166.75			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	135.60			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	803.63			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	66.00			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	226.13			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	210.80			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	219.75			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	432.60			
	Sqm				
	Present Qty	2568.60			
	Tender Qty	6542.69			
	Now to be paid Qty	**2568.60**	86.00	**220899.60**	
14	**Earth work in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road, drains & trenches of pipeline and cables) and removing the excavated stuff to to a distance not xceeding 50m and lift upto 1.5m excavated surface levelled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. KBS 2.1 (a)/2.3.1 No. 5/ Item No. 2.1/PWD SR 2015-16.**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	0.00			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	0.00			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	0.00			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	0.00			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	0.00			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	85.95			

	Cum				
	Present Qty	85.95			
	Tender Qty	59.25			
	Qantity reserved for want of approval of Modified Estimate	**26.70**			
	Now to be paid Qty	**59.25**	**175.00**	**10368.75**	
50	**KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. No. 12/ Item No. 4.3/ PWD SR 2015-16**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	96.82			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	0.00			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	2.70			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	0.00			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	0.00			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	0.00			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	0.00			
	Cum				
	Present Qty	99.52			
	Tender Qty	1170.24			
	Now to be paid Qty	**99.52**	**5577.00**	**555023.04**	
51	**Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift. (P171, It No. 22.7)**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	645.45			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	0.00			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	0.00			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	0.00			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	0.00			

	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	0.00			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	0.00			
	Sqm				
	Present Qty	645.45			
	Tender Qty	5265.00			
	Now to be paid Qty	**645.45**	**106.00**	**68417.70**	
57	**KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-235. Item No. 5.3)**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	0.00			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	8.10			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	0.00			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	0.00			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	0.00			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	0.00			
	Cum				
	Present Qty	8.10			
	Tender Qty	88.93			
	Now to be paid Qty	**8.10**	**4237.00**	**34319.70**	
59	**KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 112 / Item No. 15.4 / PWD SR 2015-16**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	0.00			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	18.00			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	0.00			

	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	0.00			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	0.00			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	0.00			
	Sqm				
	Present Qty	18.00			
	Tender Qty	765.00			
	Now to be paid Qty	**18.00**	**106.00**	**1908.00**	
60	**KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. No. 12/ Item No. 4.6/ PWD SR 2015-16**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	0.00			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	1.80			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	0.00			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	0.00			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	0.00			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	0.00			
	Cum				
	Present Qty	1.80			
	Tender Qty	58.17			
	Now to be paid Qty	**1.80**	**6039.00**	**10870.20**	

E-2	**KSRRB M400-6.1: Construction of Granular Sub Base by providing close graded Crushed stone aggragate granite /trap/basalt materials, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications A. Plant Mix Method Gor Grading II Material Page No. 154 / Item No. 20.4.2 / PWD SR 2015-16**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	0.00			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	0.00			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	0.00			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	0.00			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	0.00			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	715.33			
	Cum				
	Present Qty	715.33			
	Tender Qty	0.00			
	Qantity reserved for want of approval of Modified Estimate	**715.33**			
	Now to be paid Qty	**0.00**	**1914.72**	**0.00**	

E-3	**Cement concrete pavement. Construction of un-reinfirced plain cement concrete pavement, thickness as per deisgn, over a prepraed sub base with OPC cement or any other type as per clause 1051..2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates ,with superplastiser @ 3lts confirming to IS9103-1999 REAFFIRMED-2008, Mixed in a concrete mixer of not less than 0.6 cum capacity and approximate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates inlcuding levelling the form work as per drawing) and spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continous operation including, provision of contraction, expansion, construction operation including longitudinal joints, including groove cutting charges joint filler, sparation menebrane, sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specfication.M20 (AT 300 Kg per cum coarse aggregats @ 0.69cum and fine aggregate @0.43cum) (Pg No.174, It No.22.6.1)**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	64.55			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	0.00			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	0.00			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	0.00			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	0.00			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	0.00			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	0.00			
	Cum				
	Present Qty	64.55			
	Tender Qty	0.00			
	Qantity reserved for want of approval of Modified Estimate	64.55			
	Now to be paid Qty	**0.00**	**7149.41**	**0.00**	
E-4	**Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)**				
	1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.	0.00			
	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	0.00			

	3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.	0.00			
	4)Improvements to roads in Chiranjeevi layout church road in ward no.07, Byatarayanapura.	18.36			
	5)Improvements to Roads and Drains in Hoysala layout Amruthalli in ward no.07, Byatarayanapura.	0.00			
	6)Improvements to Roads and Drains in Ayyappa swamy Temple opposite roads (Gopalappa Layout) in ward no.07, Byatarayanapura.	0.00			
	9)Lottegollahalli from RMV Apartments Phase II upto railway gate	0.00			
	11)Improvements to Roads in 5th cross road of Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	12)Improvements to Roads in 4th cross road from Bhadrappa Main road upto cross road in Balaji Layout in ward no. 8, Kodigehalli.	0.00			
	13)Improvements to Roads and cross roads of AMCO Layout and Deenclave Layout in Ward no. 8, Kodigehalli.	0.00			
	17)Improvements and Asphalting to Road connecting Hoysala Apartments-AMCO Layout Tata Nagara.	0.00			
	Cum				
	Present Qty	18.36			
	Tender Qty	0.00			
	Qantity reserved for want of approval of Modified Estimate	**18.36**			
	Now to be paid Qty	**0.00**	**5876.63**	**0.00**	
	GRAND TOTAL			**21249455.69**	

RBI-TECHNICAL SERVICES

PMC Proprietor

Asst.Engineer Ward no.08

Asst.Exe.Engineer 21/12/17

Assistant Executive Engr
Kodigehalli Sub Divis
Yelahanka Zone, B.B.M.P.
Bangalore.

Contractor

Asst.Engineer Ward no. 07

Measurement Sheet

For the

Work of: 1)Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.

BRUHAT BENGALURU MAHANAGARA PALIKE
MEASURMENT SHEET

NAME OF THE WORK :- Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.

Name of Agency:- Sri. G.N Ramesh

Item Number :- 04

Item Name:- Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3. Page No. 141/ Item No. 19.1/PWD SR 2015-16.

SL	Particulars	Unit	Nos		L	B	D	Qty	Remarks
1	2	3	4		5	6	7	8	9
Date of Measurements:-		cum							
	Present measurements								
	5th main road, (Shabari Bakery, B.R Ambedkar Road to Milets . Family Mart)								
	Desilting of Drain								
	Ch 0.00m to 15.00m			1	15	0.60	0.45	4.05	
	Ch 15.00m to 30.00m			1	15	0.60	0.45	4.05	
	Ch 30.00m to 45.00m			1	15	0.60	0.45	4.05	
	Ch 45.00m to 60.00m			1	15	0.60	0.45	4.05	
	Ch 60.00m to 75.00m			1	15	0.60	0.45	4.05	
	Ch 75.00m to 90.00m			1	15	0.60	0.45	4.05	
	Ch 90.00m to 116.00m			1	26	0.60	0.45	7.02	
	cross road								
	Ch:0.00 to 30.00m			2	30	0.60	0.45	16.20	
	Ch: 30.00 to 55.00m			2	25	0.60	0.45	13.50	
	Road excavation								
	Ch 0.00m to 15.00m			1	15	(4.3+3.9)/2	0.15	9.23	
	Ch 15.00m to 30.00m			1	15	(3.9+3.9)/2	0.15	8.78	
	Ch 30.00m to 45.00m			1	15	(3.9+4.5)/2	0.15	9.45	
	Ch 45.00m to 60.00m			1	15	(4.5+5.1)/2	0.15	10.80	
	Ch 60.00m to 75.00m			1	15	(5.1+5.5)/2	0.15	11.93	
	Ch 75.00m to 90.00m			1	15	(5.5+4.1)/2	0.15	11.93	
	Ch 90.00m to 116.00m			1	26	(4.1+7.1)/2	0.15	22.72	
						Net Qty		**145.84**	

RBI-TECHNICAL SERVICES

Proprietor

AE(NTH)
02/10/17

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BENGALURU MAHANAGARA PALIKE

MEASURMENT SHEET

NAME OF THE WORK :- Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.

Name of Agency:- Sri. G.N Ramesh

Item Number :- ~~02~~ 50

Item Name:-KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . (Pg.No.12, It.4.3)

SL	Particulars	Unit	Nos		L	B	D	Qty	Remarks
1	2	3	4		5	6	7	8	9
Date of Measurements:-		cum							
	Present measurements								
	5th main road, (Shabari Bakery, B.R Ambedkar Road to Milets Family Mart)								
	Ch 0.00m to 15.00m			1	15	(4.3+3.9)/2	0.15	9.23	
	Ch 15.00m to 30.00m			1	15	(3.9+3.9)/2	0.15	8.78	
	Ch 30.00m to 45.00m			1	15	(3.9+4.5)/2	0.15	9.45	
	Ch 45.00m to 60.00m			1	15	(4.5+5.1)/2	0.15	10.80	
	Ch 60.00m to 75.00m			1	15	(5.1+5.5)/2	0.15	11.93	
	Ch 75.00m to 90.00m			1	15	(5.5+4.1)/2	0.15	11.93	
	Ch 90.00m to 116.00m			1	26	(4.1+7.1)/2	0.15	22.72	
	cross road			1	20	(4.0+4.0)/2	0.15	12.00	
							Net Qty	**96.82**	

RBI-TECHNICAL SERVICES

Proprietor

AE(WZ)
13/10/17

13/10/17
Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BENGALURU MAHANAGARA PALIKE

MEASURMENT SHEET

NAME OF THE WORK :- Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.

Name of Agency:- Sri. G.N Ramesh

Item Number :- 03 **(EIRL)**

Item Name:-Cement concrete pavement. Construction of un-reinfirced plain cement concrete pavement, thickness as per deisgn, over a prepraed sub base with OPC cement or any other type as per clause 1051..2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates ,with superplastiser @ 3lts confirming to IS9103-1999 REAFFIRMED-2008, Mixed in a concrete mixer of not less than 0.6 cum capacity and approximate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates inlcuding levelling the form work as per drawing) and spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continous operation including, provision of contraction, expansion, construction operation including longitudinal joints, including groove cutting charges joint filler, sparation menebrane, sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specfication.M20 (AT 300 Kg per cum coarse aggregats @ 0.69cum and fine aggregate @0.43cum) (Pg No.174, It No.22.6.1)

SL	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5	6	7	8	9
Date of Measurements:-		cum						
	Present measurements							
	5th main road, (Shabari Bakery, B.R Ambedkar Road to Milets Family Mart)							
	Ch 0.00m to 15.00m		1	15	(4.3+3.9)/2	0.10	6.15	
	Ch 15.00m to 30.00m		1	15	(3.9+3.9)/2	0.10	5.85	
	Ch 30.00m to 45.00m		1	15	(3.9+4.5)/2	0.10	6.30	
	Ch 45.00m to 60.00m		1	15	(4.5+5.1)/2	0.10	7.20	
	Ch 60.00m to 75.00m		1	15	(5.1+5.5)/2	0.10	7.95	
	Ch 75.00m to 90.00m		1	15	(5.5+4.1)/2	0.10	7.95	
	Ch 90.00m to 116.00m		1	26	(4.1+7.1)/2	0.10	15.15	
	cross road		1	20	(4.0+4.0)/2	0.10	8.00	
						Net Qty	**64.55**	

RBI-TECHNICAL SERVICES

Proprietor

A.E(NS)

28/11/17

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BENGALURU MAHANAGARA PALIKE

MEASURMENT SHEET

NAME OF THE WORK :- Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.

Name of Agency:- Sri. G.N Ramesh

Item Number :- # 51

Item Name:- Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift. (P171, It No. 22.7)

SL	Particulars	Unit	Nos		L	B	D	Qty	Remarks
1	2	3	4		5	6	7	8	9
Date of Measurements:-		sqm							
	Present measurements								
	5th main road, (Shabari Bakery, B.R Ambedkar Road to Milets Family Mart)								
	Ch 0.00m to 15.00m			1	15	(4.3+3.9)/2		61.50	
	Ch 15.00m to 30.00m			1	15	(3.9+3.9)/2		58.50	
	Ch 30.00m to 45.00m			1	15	(3.9+4.5)/2		63.00	
	Ch 45.00m to 60.00m			1	15	(4.5+5.1)/2		72.00	
	Ch 60.00m to 75.00m			1	15	(5.1+5.5)/2		79.50	
	Ch 75.00m to 90.00m			1	15	(5.5+4.1)/2		79.50	
	Ch 90.00m to 116.00m			1	26	(4.1+7.1)/2		151.45	
	cross road			1	20	(4.0+4.0)/2		80.00	
							Net Qty	**645.45**	

RBI-TECHNICAL SERVICES

Proprietor

A.E(Civil)
28/11/17

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BENGALURU MAHANAGARA PALIKE

MEASURMENT SHEET

NAME OF THE WORK :- Reasphalting to Road in Shabri Bakeri road in Byatarayanapura in ward no. 07, Byatarayanapura.

Name of Agency:- Sri. G.N Ramesh

Item Number :- 13

Item Name:- KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)

SL	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5	6	7	8	9
Date of Measurements:-		cum						
	Present measurements							
	5th main road, (Shabari Bakery, B.R Ambedkar Road to Milets Family Mart)							
	Qty vide Item no.1						145.84	
					Net Qty		**145.84**	

RBI-TECHNICAL SERVICES

Proprietor

AE(W)
28/11/17

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Measurement Sheet

For the

Work of: 3)Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.

BRUHAT BENGALURU MAHANAGARA PALIKE

MEASURMENT SHEET

NAME OF THE WORK :- Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.

Name of Agency:- Sri. G.N Ramesh

Item Number :- 04

Item Name:- Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3. Page No. 141/ Item No. 19.1/PWD SR 2015-16.

SL	Particulars	Unit	Nos		L	B	D	Qty	Remarks
1	2	3	4		5	6	7	8	9
Date of Measurements:-		cum							
	Present measurements								
	1st main road, K.V.J Road, Muniswamegowda Layout								
	Ch 0.00m to 30.00m			2	30.00	0.50	0.50	15.00	
	Ch 30.00m to 60.00m			2	30.00	0.50	0.50	15.00	
	Ch 60.00m to 90.00m			2	30.00	0.50	0.50	15.00	
	Ch 90.00m to 120.00m			2	30.00	0.50	0.50	15.00	
	Ch 120.00m to 150.00m			2	30.00	0.50	0.50	15.00	
	Ch 150.00m to 180.00m			2	30.00	0.50	0.50	15.00	
	Ch 180.00m to 210.00m			2	30.00	0.50	0.50	15.00	
	Ch 210.00m to 240.00m			2	30.00	0.50	0.50	15.00	
	Ch 240.00m to 270.00m			2	30.00	0.50	0.50	15.00	
	Ch 270.00m to 300.00m			2	30.00	0.50	0.50	15.00	
	Ch 300.00m to 323.00m			2	23.00	0.50	0.50	15.00	
							Net Qty	**161.50**	

RBI-TECHNICAL SERVICES

Proprietor

AE(W7)
28/9/17

28/9

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BENGALURU MAHANAGARA PALIKE

MEASURMENT SHEET

NAME OF THE WORK :- Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.

Name of Agency:- Sri. G.N Ramesh

Item Number :- 05

Item Name:- KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, No. 160 / Item No. 21.3

SL	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5	6	7	8	9
Date of Measurements:-		sqm						
	Present measurements							
	1st main road, K.V.J Road, Muniswamegowda Layout							
	Ch 0.00m to 30.00m		1	30.00	(5.4+4.9)/2		154.50	
	Ch 30.00m to 60.00m		1	30.00	(4.9+4.9)/2		147.00	
	Ch 60.00m to 90.00m		1	30.00	(4.9+4.8)/2		145.50	
	Ch 90.00m to 120.00m		1	30.00	(4.8+6.2)/2		165.00	
	Ch 120.00m to 150.00m		1	30.00	(6.2+4.6)/2		162.00	
	Ch 150.00m to 180.00m		1	30.00	(4.6+4.7)/2		139.50	
	Ch 180.00m to 210.00m		1	30.00	(4.7+6.4)/2		166.50	
	Ch 210.00m to 240.00m		1	30.00	(6.4+6.0)/2		186.00	
	Ch 240.00m to 270.00m		1	30.00	(6.0+6.2)/2		183.00	
	Ch 270.00m to 300.00m		1	30.00	(6.2+6.8)/2		195.00	
	Ch 300.00m to 323.00m		1	23.00	(6.8+6.4)/2		151.80	
						Net Qty	**1,795.80**	

RBI-TECHNICAL SERVICES

Proprietor

AE(NS)
03/10/17

Assistant Executive Engineer.
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.
Bangalore.

BRUHAT BENGALURU MAHANAGARA PALIKE

MEASURMENT SHEET

NAME OF THE WORK :- Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.

Name of Agency:- Sri. G.N Ramesh

Item Number :- 06

Item Name:- KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406, Page No. 157 / Item No. 20.18 /

SL	Particulars	Unit	Nos		L	B	D	Qty	Remarks
1	2	3	4		5	6	7	8	9
Date of Measurements:-		cum							
	Present measurements								
	Muniswamegowda Layout								
	Ch 0.00m to 30.00m			1	30.00	(5.4+4.9)/2	0.20	30.90	
	Ch 30.00m to 60.00m			1	30.00	(4.9+4.9)/2	0.20	29.40	
	Ch 60.00m to 90.00m			1	30.00	(4.9+4.8)/2	0.20	29.10	
	Ch 90.00m to 120.00m			1	30.00	(4.8+6.2)/2	0.20	33.00	
	Ch 120.00m to 150.00m			1	30.00	(6.2+4.6)/2	0.20	32.40	
	Ch 150.00m to 180.00m			1	30.00	(4.6+4.7)/2	0.20	27.90	
	Ch 180.00m to 210.00m			1	30.00	(4.7+6.4)/2	0.20	33.30	
	Ch 210.00m to 240.00m			1	30.00	(6.4+6.0)/2	0.20	37.20	
	Ch 240.00m to 270.00m			1	30.00	(6.0+6.2)/2	0.20	36.60	
	Ch 270.00m to 300.00m			1	30.00	(6.2+6.8)/2	0.20	39.00	
	Ch 300.00m to 323.00m			1	23.00	(6.8+6.4)/2	0.20	30.36	
							Net Qty	**359.16**	

RBI-TECHNICAL SERVICES

Proprietor

AE(Civil)

13/10/17

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BENGALURU MAHANAGARA PALIKE

MEASURMENT SHEET

NAME OF THE WORK :- Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.

Name of Agency:- Sri. G.N Ramesh

Item Number :- 08

Item Name:-Proviidng and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 1.10 Kg/sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification No. 502, Page No. 160/ Item No. 21.5/ PWD SR 2015-16.

SL	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5	6	7	8	9
Date of Measurements:-		sqm						
	Present measurements							
	1st main road, K.V.J Road, Muniswamegowda Layout							
	Ch 0.00m to 30.00m		1	30.00	(5.4+4.9)/2		154.50	
	Ch 30.00m to 60.00m		1	30.00	(4.9+4.9)/2		147.00	
	Ch 60.00m to 90.00m		1	30.00	(4.9+4.8)/2		145.50	
	Ch 90.00m to 120.00m		1	30.00	(4.8+6.2)/2		165.00	
	Ch 120.00m to 150.00m		1	30.00	(6.2+4.6)/2		162.00	
	Ch 150.00m to 180.00m		1	30.00	(4.6+4.7)/2		139.50	
	Ch 180.00m to 210.00m		1	30.00	(4.7+6.4)/2		166.50	
	Ch 210.00m to 240.00m		1	30.00	(6.4+6.0)/2		186.00	
	Ch 240.00m to 270.00m		1	30.00	(6.0+6.2)/2		183.00	
	Ch 270.00m to 300.00m		1	30.00	(6.2+6.8)/2		195.00	
	Ch 300.00m to 323.00m		1	23.00	(6.8+6.4)/2		151.80	
						Net Qty	**1,795.80**	

RBI-TECHNICAL SERVICES

Proprietor

AE(W-7)
20/11/17

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BENGALURU MAHANAGARA PALIKE

MEASURMENT SHEET

NAME OF THE WORK :- Improvements to roads in Kempapura Cheluvanarayanaswamy house road in ward no.07, Byatarayanapura.

Name of Agency:- Sri. G.N Ramesh

Item Number :- 11

Item Name:- KSRRB-500-11.Providing and laying bituminious macadam on prepared surface with crushed coarse aggregates as per design mix formula for base/binding course inlcuding loading of aggregates with F.E.Loader, hot mixing of stone aggregates and bitumen in hot mix plant, trnsporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required lvevel and grade, rolling by power roller to achieve the desired density, but excluding cost of primer/tack coat inlcuding lead, lift and cost of all materials, labour HOM of machineries complete as per specifications. Pg No.161, Item No.21.11.5. With mechanical paver Gr-1

SL	Particulars	Unit	Nos		L	B	D	Qty	Remarks
1	2	3	4		5	6	7	8	9
Date of Measurements:-		cum							
	Present measurements								
	1st main road, K.V.J Road, Muniswamegowda Layout								
	Ch 0.00m to 30.00m			1	30.00	(5.4+4.9)/2	0.05	7.73	
	Ch 30.00m to 60.00m			1	30.00	(4.9+4.9)/2	0.05	7.35	
	Ch 60.00m to 90.00m			1	30.00	(4.9+4.8)/2	0.05	7.28	
	Ch 90.00m to 120.00m			1	30.00	(4.8+6.2)/2	0.05	8.25	
	Ch 120.00m to 150.00m			1	30.00	(6.2+4.6)/2	0.05	8.10	
	Ch 150.00m to 180.00m			1	30.00	(4.6+4.7)/2	0.05	6.98	
	Ch 180.00m to 210.00m			1	30.00	(4.7+6.4)/2	0.05	8.33	
	Ch 210.00m to 240.00m			1	30.00	(6.4+6.0)/2	0.05	9.30	
	Ch 240.00m to 270.00m			1	30.00	(6.0+6.2)/2	0.05	9.15	
	Ch 270.00m to 300.00m			1	30.00	(6.2+6.8)/2	0.05	9.75	
	Ch 300.00m to 323.00m			1	23.00	(6.8+6.4)/2	0.05	7.59	
							Net Qty	**89.79**	

RBI-TECHNICAL SERVICES

Proprietor

AE(W)
20/11/17

20/11

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.